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Wei Wang, Vikram Srinivasan, Kee-Chaing Chua
October 2008 **IEEE/ ACM Transactions on Networking (TON)**, Volume 16

Publisher: IEEE Press [Request Permissions](#)

Full text available: Pdf (1.14 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 69, Downloads (12 Months): 149, Downloads (All Time): 149

We investigate the benefits of a heterogeneous architecture for wireless sensor networks. We present a science-centric evaluation of a 19-day sensor network deployment in Ecuador. Each of the 16 sensors continuously sampled seismic and acoustic detection algorithm to trigger ...

Keywords: mobile relay, network lifetime, sensor networks

- 2 [Fidelity and yield in a volcano monitoring sensor network](#)
Geoff Werner-Allen, Konrad Lorincz, Jeff Johnson, Jonathan Lees, Matt Wei
November 2006 **OSDI '06: Proceedings of the 7th symposium on Operating Systems**

Publisher: USENIX Association

Full text available: Pdf (1.53 MB)

Additional Information: [full citation](#), [abstract](#)

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We present a science-centric evaluation of a 19-day sensor network deployment in Ecuador. Each of the 16 sensors continuously sampled seismic and acoustic detection algorithm to trigger ...

- 3 [Communications of the ACM: Volume 51 Issue 1](#)

January 2008 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (5.97 MB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 355, Downloads (12 Months): 3182, Downloads (All Time): 3182

- 4 [What's going on?: learning communication rules in edge networks](#)

Srikanth Kandula, Ranveer Chandra, Dina Katabi

August 2008 **SIGCOMM '08: Proceedings of the ACM SIGCOMM 2008 conference on Data communication**

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (4.84 MB)

Additional Information: [full citation](#), [abstract](#)

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Existing traffic analysis tools focus on traffic volume. They identify the volumes of data, yet fail to identify the structure implicit in network traffic along with ...

Keywords: communication rules, correlation, expose, rule mining

Also published in:

October 2008 **SIGCOMM Computer Communication Review** Volume 38 Issue


5 [Improving Network Operations With Intelligent Agents](#)

Nathan J. Muller

July 1997

International Journal of Network Management, Volume 7

Publisher: John Wiley & Sons, Inc.

Full text available:  Pdf (314.75 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 12, Download

Automating network and system management tasks has never been easier. This article describes the uses and advantages of intelligent agents, to identify and dispatching technicians ...


6 [IP is dead, long live IP for wireless sensor networks](#)



Jonathan W. Hui, David E. Culler

November 2008 **SensSys '08: Proceedings of the 6th ACM conference on Embedded Systems**

Publisher: ACM  Request Permissions

Full text available:  Pdf (1.56 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 85, Downloads (12 Months): 804, Download

A decade ago as wireless sensor network research took off many researchers believed that the needs of wireless sensor network links have emerged, ...

Keywords: 6lowpan, internet, internetworking, ip, ipv6, media management, wireless


7 [Fine grained kernel logging with KLogger: experience and insights](#)



Yoav Etsion, Dan Tsafir, Scott Kirkpatrick, Dror G. Feitelson

June 2007 **EuroSys '07: Proceedings of the 2nd ACM SIGOPS/EuroSys 1**

Publisher: ACM

Full text available:  Pdf (652.32 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 94, Download


Understanding the detailed behavior of an operating system is crucial for an understanding of system performance, due to the increasing complexity of implemented and ...

Keywords: KLogger, Linux, kernel logging, locking, operating systems,


Also published in:

June 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 3

8 [Secure Time Synchronization in Sensor Networks](#)

 Saurabh Ganeriwal, Christina Pöpper, Srdjan Čapkun, Mani B. Srivastava
July 2008 **Transactions on Information and System Security (TIS)**

Publisher: ACM 

Full text available:  Pdf (490.90 KB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 383, Downl

Time synchronization is critical in sensor networks at many layers of the radio, accurate and secure localization, beamforming, and other collabo make time-synchronization ...

Keywords: Sensor networks, delay, message authentication code, time

9 [Communications of the ACM: Volume 52 Issue 3](#)

 March 2009 Communications of the ACM

Publisher: ACM



Full text available:  Digital Edition ,  Pdf (7.04 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 371, Downloads (12 Months): 2935, Dov

10 [Communications of the ACM: Volume 52 Issue 7](#)

 July 2009 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.61 MB) Additional Information: [full citation](#)


Bibliometrics: Downloads (6 Weeks): 1192, Downloads (12 Months): 7168, Dc

11 [OviVis: visualization of peer-to-peer networks in simulation and testb](#)

 Konrad Jünemann, Jochen Dinger

April 2008 **CNS '08: Proceedings of the 11th communications and netw**

Publisher: ACM

Full text available:  Pdf (257.80 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 66, Downlo

Peer-to-Peer (P2P) networks are realized as overlay networks and hence exist. In addition, P2P networks dynamically adapt to changes in the en Thus, network topologies ...

Keywords: network visualization, peer-to-peer

12 [AjaxScope: a platform for remotely monitoring the client-side behav](#)

 Emre Kiciman, Benjamin Livshits

October 2007 **SOSP '07: Proceedings of twenty-first ACM SIGOPS symposi**

Publisher: ACM 

Full text available:

Additional Information: [full citation](#), [abs](#)

 Pdf (1.45 MB)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 385, Downl


The rise of the software-as-a-service paradigm has led to the developm applications often called Web 2.0. While web applications have become developers today have ...

Keywords: software instrumentation, software monitoring, web applica

Also published in:


October 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 6

13 Lance: optimizing high-resolution signal collection in wireless sensor

 Geoffrey Werner-Allen, Stephen Dawson-Haggerty, Matt Welsh

November 2008 **SenSys '08: Proceedings of the 6th ACM conference on En**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.39 MB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 283, Downl

An emerging class of sensor networks focuses on reliable collection of h In these applications, the system is capable of acquiring more data thar severe limits ...


Keywords: data collection, resource management, wireless sensor net

14 Quality-aware distributed data delivery for continuous query services

 Bugra Gedik, Ling Liu

June 2006 **SIGMOD '06: Proceedings of the 2006 ACM SIGMOD interna**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (679.89 KB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 80, Downlo

We consider the problem of distributed continuous data delivery service nodes. Each node in the system can be a source for any number of data node that is receiving streams ...

Keywords: quality of service, stream delivery

15 Proceedings of the 44th annual Design Automation Conference

 Steven P. Leytan

June 2007 **DAC '07: Proceedings of the 44th annual Design Automation**


Publisher: ACM

Additional Information: [full citation](#), [abstract](#)


Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downl

Welcome to San Diego and the 44th Design Automation Conference! Sa proximity to many high-tech companies, its beautiful location in souther

sights. For those ...

- 16 [Understanding the propagation of hard errors to software and implications](#)
 Man-Lap Li, Pradeep Ramachandran, Swarup Kumar Sahoo, Sarita V. Adve
 March 2008 **ASPLOS XIII: Proceedings of the 13th international conference on languages and operating systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (242.26 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 202, Downloads (Since Publication): 202

With continued CMOS scaling, future shipped hardware will be increasingly broadly deployable, the hardware reliability solution must incur low overhead redundancy. We explore a cooperative ...

Keywords: architecture, error detection, fault injection, permanent faults

- 17 [Self-tuning database technology and information services: from wish](#)
 Gerhard Weikum, Axel Moenkeberg, Christof Hasse, Peter Zabback
 August 2002 **VLDB '02: Proceedings of the 28th international conference on**
Publisher: VLDB Endowment

Full text available:  Pdf (553.39 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 108, Downloads (Since Publication): 108

Automatic tuning has been an elusive goal for database technology for modern E-services. This paper reviews and assesses the advances that during the last ten years. ...

- 18 [XML stream processing using tree-edit distance embeddings](#)
 Minos Garofalakis, Amit Kumar
 March 2005 **Transactions on Database Systems (TODS)**, Volume 30 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (726.56 KB)

Additional Information: [full citation](#), [abstract](#)


Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 125, Downloads (Since Publication): 125

We propose the first known solution to the problem of correlating, in stream through approximate (structure and content) matching, as defined by a element of our solution ...

Keywords: XML, approximate query processing, data streams, data systems, distance

- 19 [Process prioritization using output production: Scheduling for multimedia](#)
 Yoav Etsion, Dan Tsafir, Dror G. Feitelson
 November 2006 **Transactions on Multimedia Computing, Communications, and Applications**
 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (618.60 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 97, Downloads (Since Publication): 97

Desktop operating systems such as Windows and Linux base scheduling consume fewer CPU cycles are prioritized, assuming that interactive pro their time waiting ...

Keywords: Multimedia, resource management

20 [Communications of the ACM: Volume 51 Issue 12](#)
December 2008 [Communications of the ACM](#)



Publisher: ACM

Full text available: Digital Edition , Pdf (6.91 MB) [Additional Information: full citation](#)

Bibliometrics: Downloads (6 Weeks): 453, Downloads (12 Months): 4375, Dov

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